

## CLAIMS

We claim:

1. A system for dynamic content resolution comprising:

one or more central processing units (CPUs) and one or more memories;

5 one or more source program files;

one or more insert statements inserted into the source program file, the insert statement having one or more logical condition statements with one or more logical parameters and one or more state statements;

an insert statement parser that determines a state of the logical condition statement, selects one 10 of the state statements associated with the state, and parses the selected state statement into one or more content source indicators;

a content source identification process that uses one or more of the content source indicators to determine a content source type and one or more access instructions;

a content source access process that uses the access instructions to access a content source object, 15 the content source object having content; and

a content insertion process that replaces the insert statement with the content accessed from the content source object referred to by the indicators in the source program file.

2. A system, as in claim 1, where the content insertion process replaces the insert statement in one of the following ways: a replacement by value and a replacement by reference.

5 3. A system, as in claim 1, further comprising a decision process that decides how the content insertion process replaces the insert statement.

4. A system, as in claim 3, where the decision process decides to replace the insert statement by one of the following: a replacement by value and a replacement by reference.

10 5. A system, as in claim 1, where the state statement has at least two content source indicators and the content source indicators are in a hierarchy of indicators.

6. A system, as in claim 5, where the content source access process recursively traverses the hierarchy of indicators to obtain a set of access instructions at one or more levels of the hierarchy of indicators.

15 7. A system, as in claim 1, where the content source object is any one or more of the following: a mass data storage application, an HTML program source file, a static file, a memory access, a

multimedia data file, text file, XML file, binary data file, remote file, electronic measurement and live content.

8. A system, as in claim 1, where one of the content source indicators is a content source type indicator.

5 9. A system, as in claim 8, where the content source object is a mass data storage application and the content source type indicator has a location of the data storage application and the content source type, respectively.

10 10. A system, as in claim 8, where the content source object is an HTML source program file and the content source type indicator is a keyword that indicates the content source type as an HTML type, the content source type being associated with a location of the access instructions for the HTML source program file.

11. A system, as in claim 1, where the content source object is a static file and the content source type indicator is a location of the access instructions.

12. A system, as in claim 1, where the logical condition statement is one or more content source 15 indicators.

13. A system, as in claim 1, where the source program file contains one or more insert statements and the content.

14. A system for dynamic content resolution comprising:

one or more central processing units (CPUs) and one or more memories;

one or more source program files;

one or more insert statements inserted into the source program file, the insert statement having  
5 one or more logical condition statements with one or more logical parameters and one or more  
state statements with one or more content source indicators, where the state statements are nested  
insert statements;

an insert statement parser that determines a state of the condition statement, selects one of the  
state statements associated with the state, parses the selected state statement into the respective  
10 content source indicators, and creates an insert statement context that tracks a path connecting the  
nested insert statements;

a content source identification process that uses one or more of the content source indicators to  
determine a content source type and one or more access instructions;

a content source access process that used the access instructions to access a content source  
15 object; the content source object having content, and

a content insertion process that replaces the insert statement with the content accessed from the content source object referred to by the indicators in the source program file.

15. A system, as in claim 14, where the insert statement parser further attaches context information to the path.

5 16. A method for dynamic content resolution comprising the steps of:

identifying one or more insert statements inserted into a source program file, the insert statement having one or more logical condition statements with one or more logical parameters and one or more state statements;

determining a state of the logical condition statement ;

10 selecting one of the state statements associated with the state;

parsing the selected state statement into one or more content source indicators;

using one or more of the content source indicators to determine a content source type and one or more access instructions;

using the access instructions to access a content source object, the content source object having content; and

replacing the insert statement with the content from the content source object referred to by the indicators in the source program file.

5 17. A system for dynamic content resolution comprising the steps of:

means for identifying one or more insert statements inserted into a source program file, the insert statement having one or more logical condition statements with one or more logical parameters and one or more state statements;

means for determining a state of the logical condition statement ;

10 means for selecting one of the state statements associated with the state;

means for parsing the selected state statement into one or more content source indicators;

means for using one or more of the content source indicators to determine a content source type and one or more access instructions;

means for using the access instructions to access a content source object, the content source object having content; and

means for replacing the insert statement with the content from the content source object referred to by the indicators in the source program file.

18. A computer program product having a computer program comprising the steps of:

identifying one or more insert statements inserted into a source program file, the insert statement

5 having one or more logical condition statements with one or more logical parameters and one or more state statements;

determining a state of the logical condition statement ;

selecting one of the state statements associated with the state;

parsing the selected state statement into one or more content source indicators;

10 using one or more of the content source indicators to determine a content source type and one or more access instructions;

using the access instructions to access a content source object, the content source object having content; and

replacing the insert statement with the content from the content source object referred to by the indicators in the source program file.

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